QC ABSTRACT

NAME OF WORK: Construction of Roads and Drains at 22nd B Cross Roads, Housing Board C Block near Hoysala Stadium in Ward No. 04 Yelahanka New Town Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (150mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	RCC(M20)	Compressive Strength(7days and 28days)	5 set /50-100 cum	67.86	10	10
10	Cement Concrete Pavement (M30)	Compressive Strength(7days and 28days)	2 set /6-15 cum	7.2	4	4

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-27-51** **Date: 30-06-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Roads and Drains at 22nd B Cross Roads, Housing Board C Block near Hoysala Stadium in Ward No. 04 Yelahanka New Town Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-04/W.O/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-06-2022
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-06-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	5433	5678	37.9	62.1	30-70
4	10 mm	4331	10009	66.7	33.3	10-35
5	4.75 mm	4657	14666	97.8	2.2	0-5
6	Pan	334	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-27-51** **Date: 29-06-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Roads and Drains at 22nd B Cross Roads, Housing Board C Block near Hoysala Stadium in Ward No. 04 Yelahanka New Town Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer Reference	:	BBMP/EE/YNK.D/EPMT-04/W.O/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-06-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	241	241	4.8	95.2	90-100
3	10 mm	2562	2803	56.1	43.9	25-55
4	4.75 mm	2035	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-07-27-51 **Date: 30-06-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore
Project Name	:	Construction of Roads and Drains at 22nd B Cross Roads, Housing Board C Block near Hoysala Stadium in Ward No. 04 Yelahanka New Town Sub Division
Agency	:	Sri R Ranganath, No 37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-04/W.O/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-06-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1 95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3 12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Authorized Signatory
Technical Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-27-51** **Date: 26-07-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Roads and Drains at 22nd B Cross Roads, Housing Board C Block near Hoysala Stadium in Ward No. 04 Yelahanka New Town Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-04/W.O/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	28-06-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-07-27-51** **Date: 12/07/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Roads and Drains at 22nd B Cross Roads, Housing Board C Block near Hoysala Stadium in Ward No. 04 Yelahanka New Town Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK D/EPMT-04/W O/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-2022
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall	M20	05/07/2022	12/07/2022	150.76 X 149.57 X 151.80	22549	8.280	421.9	18.7	18.7
2	Drain Side Wall	M20	05/07/2022	12/07/2022	150.86 X 150.41 X 150.33	22692	8.282	426.3	18.8	
3	Drain Side Wall	M20	05/07/2022	12/07/2022	150.43 X 149.18 X 149.53	22441	8.680	416.9	18.6	

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-07-27-51** **Date: 29-06-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Roads and Drains at 22nd B Cross Roads, Housing Board C Block near Hoysala Stadium in Ward No. 04 Yelahanka New Town Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-04/W.O/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-2022
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	27-06-2022
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	53	74	7.4	92.6	60-95	75-100	85-100	95-100
4	1.18 mm	225	299	29.9	70.1	30-70	55-90	75-100	90-100
5	600 micron	201	500	50.0	50.0	15-34	35-59	60-79	80-100
6	300 micron	208	708	70.8	29.2	5-20	8-30	12-40	15-50
7	150 micron	192	900	90.0	10.0	0-10	0-10	0-10	0-15
8	Pan	100	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Date: 29-06-2022

Lab ID : CP-2022-07-27-51

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.25	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	9.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

• The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Date: 29-06-2022

Lab ID	:	CP-2022-07-27-51
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Roads and Drains at 22nd B Cross Roads, Housing Board C Block near Hoysala Stadium in Ward No. 04 Yelahanka New Town Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-04/W.O/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-2022
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	28-06-2022

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-07-27-51** **Date: 12-07-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Roads and Drains at 22nd B Cross Roads, Housing Board C Block near Hoysala Stadium in Ward No. 04 Yelahanka New Town Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-04/W.O/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-07-2022
Sample Type /Size	:	Precast Cover Slab(100 mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	08/07/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-07-27-51** **Date: 12-07-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Roads and Drains at 22nd B Cross Roads, Housing Board C Block near Hoysala Stadium in Ward No. 04 Yelahanka New Town Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-04/W.O/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-07-2022
Sample Type /Size	:	Precast Cover Slab(230 mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	08/07/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.65	230.56	2.956	17822	420.5	23.6	21.9	27.4
2	Cover Slab-2	150.48	230.6	2.963	17781	450.5	25.3	23.6	29.5
3	Cover Slab-3	150.96	230.95	2.984	17895	465.5	26.0	24.2	30.2

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/07/2022

Lab ID	:	CP-2022-07-27-51
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Roads and Drains at 22nd B Cross Roads, Housing Board C Block near Hoysala Stadium in Ward No. 04 Yelahanka New Town Sub Division
Agency	:	Sri R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-04/W.O/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-2022
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5
Date of test	:	12/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall	M20	05/07/2022	12/07/2022	151.68 X 151.01 X 151.31	22905	8.568	423.2	18.5	18.4
2	Drain Side Wall	M20	05/07/2022	12/07/2022	150.54 X 150.59 X 150.37	22670	8.239	408.9	18.0	
3	Drain Side Wall	M20	05/07/2022	12/07/2022	150.34 X 150.91 X 151.93	22687	9.022	421.8	18.6	

* The results obtained are satisfactory as per standard requirements.

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R.RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| ENVIRONMENTAL
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